#### **Key Points Lesson 15**

Lessons 1 through 14 introduced you to Unified English Braille (UEB) that is used when writing in a literary context. This lesson provides a brief introduction to two ways to write mathematics material; one is using the UEB code and the other is using the Nemeth code. In the United States, as of January 4, 2016, both codes are being used.

In Lesson 4 you learned the numbers in Unified English Braille. To braille numbers you place the numeric indicator (:) in front of the first 10 letters of the alphabet.

Lesson 4 briefly mentioned that in Nemeth code, the numbers drop down to the lower part of the cell.

In Nemeth code the numbers are in the lower part of the cell, so that you can combine them with letters. For example: 4a (:::::). In Unified English Braille a letter indicator (::) is used to tell the braille reader that the next cell is a letter. For example: 4a (:::::::::).

There are signs for each mathematical symbol in both Nemeth code and Unified English Braille. The table below shows you the symbols.

Symbol Name	Print	Nemeth	UEB
plus sign	+		
minus sign	-		
Multiplication	• or x		
Division	÷		
Equals	=		
Percent	%		
Decimal point	\$	:•	
Question mark	?	<b>:</b>	
to fill in answer			
Dash for			• • • • • • • • • • • • • • • • • • • •
answer			
parentheses	( )		
Number with	(13)	• • • • • • • • • • • • • • • • • • • •	
parentheses			
Comma	,	:: •	• :
Degrees	0	:• :• •:	
Letter sign	No	::	:•
	equivalent		

## Examples:

Print:  $4 \cdot 9 = 36$ 

Nemeth:

Print: 329 + 5 = 334

Nemeth:

UEB:

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Print: 450 \div 10 = ?
Nemeth:
UEB:
Print: 40\% \text{ of } 12 = \$4.8
Nemeth:
UEB:
Print: (5b+3c) =
Nemeth:
UEB:
Print: $85.33 - 12.90 = ?
::
UEB:
Print: 2, ____, 6
Nemeth:
            2, , 6
UEB:
Print: Round 1,498 to the nearest hundred.
Nemeth:
UEB:
Print: Bill has 49 candy bards and Sue has 13 gum balls. How many
do they have together?
Nemeth:
UEB:
Created by Dr. L. Penny Rosenblum
           June 2017
                       3
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### **Reading 15 Nemeth**

### **Reading 15 UEB**

# Reading 15 Answer Key

$$5 \times 8 - ? = 37$$

$$\underline{\phantom{0}}$$
 + 1.50 = 3.75

$$71.0 \cdot 35.25 = ?$$

\_\_\_\_\_, 10, 15, and 20

Stacy has \$80 and Chuck has \$65 who has more?

9% of \$65.30 is \_\_\_\_\_

$$(84a + 4) + (35b - 10) = 240$$

### Writing 15

What is the area of a rectangle that is 2 feet on one side and 7 feet on the other?

$$27 \times ? = 621$$

I paid 90 cents for 12 oranges and found that 3 of them were spoiled. How much did each good orange cost?

$$? + 64 + 58 + 37 = 265$$

$$15bc = 3b \times 5c$$

### **Writing 15 Answer Key Nemeth**

### Writing 15 Answer Key UEB